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MOON LITE
USER MANUAL

GRACE LITES CORPORATION™

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1. GENERAL INFORMATION

INTRODUCTION: Congratulations, you have just purchased one of the most innovative and reliable LED fixtures on the market today. Our company has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

> ***Notice:*** As part of our ongoing commitment to continuous products update, company will keep the right to improve this products, the information in this menu may be changed in the future, the company reserves the right to change the data without any advises.

UNPACKING: Thank you for purchasing our company products. Every product has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for damage and be sure all accessories necessary to operate the fixture have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Inside the box you should find: the fixture, a DMX XLR cable, a power cable, and this user manual. MoonLite Series with two hangers.

Please do not discard the shipping carton in the trash. Please recycle whenever possible.

Notice: To guarantee proper and consistent operation, it is important to follow the guidelines in this manual. Our company will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

2. SAFETY INSTRUCTIONS

- 1. In order to ensure the light could operate normally, the ambient temperature couldn't be higher than 35 degree and no lower than 2 degree.
- 2. Under normal condition, the highest sectional surface temperature may be up to 55-75 degree.
- 3.These projectors are designed depends on the electric shock protection, the projector should be connected with the power supply system which connected ground enough. The projector's ground cable should be connected with the ground cable of the power supply system as well. The ground mark of the light metal cover should be connecting with the installation bricked steadily.
- 4.Connecting the main power supply should be done by a professional person.
- 5.Please check the voltage, frequency data of power supply system is suitable for the mentioned on the projector. Please avoid the different voltage between them and burn the projector.
- 6.Do not attempt to operate this fixture if the power cord has become damaged or frayed.
- 7.Never open this fixture while in use.
- 8.Never look directly into the light source. You risk injury to your retina, which may induce blindness.
- 9.Please be aware that damages caused by modifications to the device are not subject to warranty.

3. PERFORMANCE TRAIT AND SKILL SPECIFICATIONS

PERFORMANCE TRAIT:

◎Lighting equipment is installed with 120pcs LED. We use EDISON LED chip as default LED chip. Client also can choose LUXEON K2 high power LED chip.
◎Low power consumption, super luminance, rich and splendid color.
◎It adopt the LCD display ,as its operating in terrace, the words can also be plus or reverse settled by 180°,very easy for using on the floor or hang on.
◎With inner automatic run function, master/slave setting very easy to operate by users.
◎The fixture´s shape adopts pressed construction design and strong wind refrigeration system which be know as a good cooling system.
◎DMX channel: Three different DMX modes.
◎Standard DMX-512.
◎Color Mixing: RGBW color additive mixing.
◎Beam Angle: 15° lens / optional 45° Lens.
◎Dimmer: Continuous dimming 0~100%.
◎Strobe: Electronic strobe 0~18 Fps.
◎Life Span: 50,000 to 100,000 hours.

SKILL SPECIFICATIONS

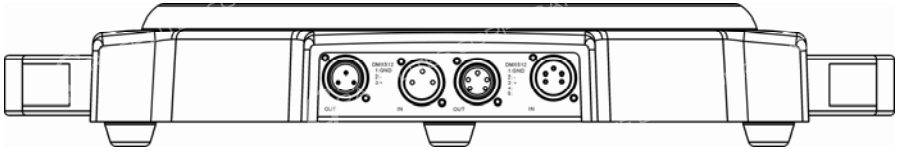
Model	Voltage	Power	LED QTY'	LED power	N.G	W.G	Carton size(mm)	Body size(mm)	IP rate
Moon Lite 120 Dip	AC90~260V 50~60Hz	430W	30R+30G+30B+30W	3W	19kg	23.7kg	495x450x498	446x362x517	IP20

4. OPERATION PANEL

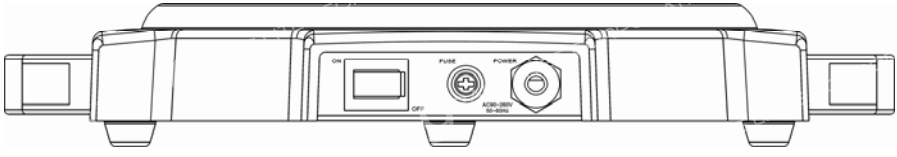
MOON LITE 120 DIP:

Display board at a fixed plate

At the end of cartons XLR plate

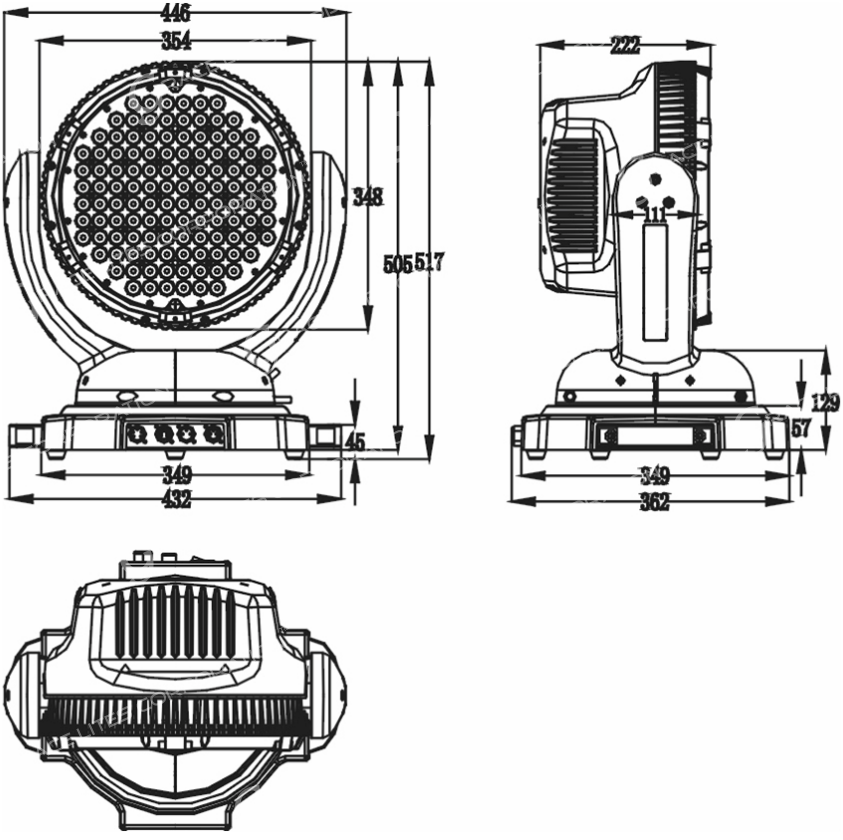


Box at the end of the power board



5. DIMENSIONAL DRAWINGS

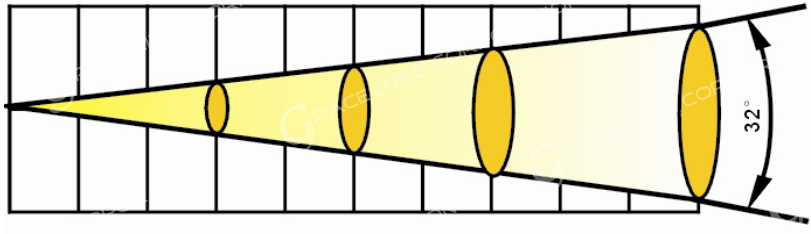
MOON LITE 120 DIP:



6. PHOTOMETRIC DATA

15° lens

R	2270	874	281	248	LUX
G	4160	1552	830	435	LUX
B	6950	2560	1354	742	LUX
W	2340	860	483	258	LUX
RGBW	15620	5720	3030	1616	LUX



0	3	5	7	10	Distance(m)
0	2	3.1	4.3	6	Diameter(m)

7. MOUNTING AND INSTALLATION

Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, and away from areas were unauthorized personnel might reach the fixture. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable. To avoid injury, never stand directly below the device when mounting, removing, or servicing the fixture.

Mounting points:

Overhead mounting requires extensive experience, including among others calculating working load limits, a fine knowledge of the installation materials being used, and do periodic safety inspection of all installation materials of the fixture. If you lack these qualifications, do not attempt the installation by yourself. Improper installation can result in bodily injury. Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

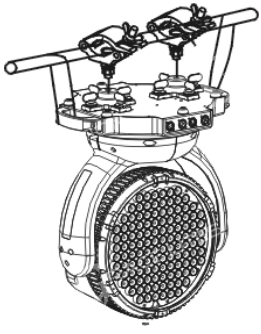
CAUTION!

Be sure a qualified electrician performs all electrical connections.

Mounting

Our company is fully operational in any mounting position, hanging upside-down, side mounted, or set on a flat level surface, etc. Be sure this fixture is kept at least 0.5m (1.5feet) away from any flammable materials (decoration etc.).

When clamp serves as a support; always use and install the supplied safety cable as an added safety measure to prevent accidental damage in the event of a clamp fails. See the image below.



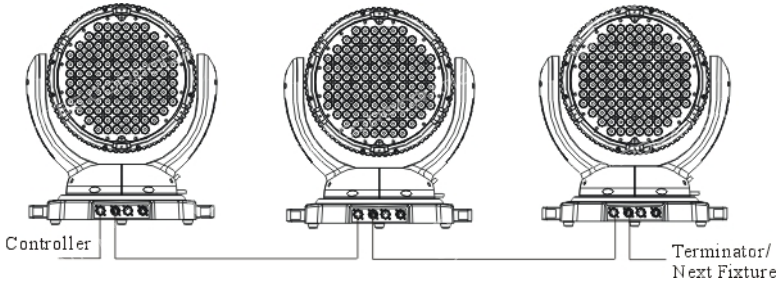
8. POWER SUPPLY AND SIGNAL CONNECTION

1. Power supply

Use the professional plug to connect the projector and main power supply. Please pay attention to the voltage, frequency the same as the mentioned on the projector. Suggest each light has separately switched of the power supply so that could turn on or turn off each projector desultorily.

2. Signal connection

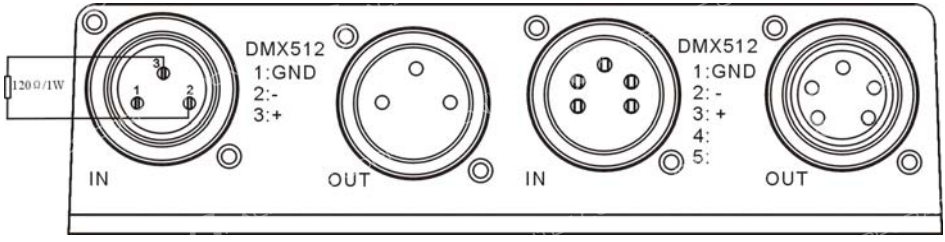
Please use the round 3-pin or 5-pin XLR plugs &sockets offered by menu facture to connect the first projector's output to the second projector' input and connect the second projector's output to the third projector's input. And in the same way for the rest, eventually connect the last projector's output, all the projectors are together as the following figure.

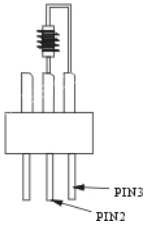


The projectors' control signal output or input by using the 3-pin or 5- pin XLR pug and socket. If need to long then the communication cable, please make sure the both side of 3-pin or 5-pin plug is one to one. (one to one, two to two, three to three). Otherwise, the communication cable will be interrupted. The communicate cable is 2-pin shielded cable 75Ω

Resistance with each core is at least a 0.5mm diameter. (Caution: All the inside leading wire of 3-pin XLR plug couldn't touch each other or plinth).

Recommend to use the DMX signal terminator for the installation to avoid the electronic noise damage the digital control signal. Simply speaking, DMX terminator is an XLR connector with a 120Ω/1w resistor connected across pin 2 and 3. Which is then plugged into the output socket on the last projector in the chain. Refer to the connection as above: (Picture). We suggest using the DMX signal distributor when the distance of the lights over 15meter,In case of effect the light communication because of the signal feeble.





3. Light power connection:

After doing the above operation and making sure all the projectors have been installed with natural operate, press the power switch to check whether everything is working normally.

9. DISPLAY MENU

1、MOON LITE 120 DIP：

ADDR	→	d.001 / d.002 / ↓ / d.512		Adjusting DMX addressing data
INFO	→	CPU	→ V.101	Display CPU version number
		TMP1	→ ***.C	Display LED board's actual temperature
		TMP2	→ ***.C	Display drive board temperature
		TIME	→ ****	Display using time
		FAN	→ TEST → F.001 / ↓ / F.019	Wind speed distinction
			→ M/AT → MAX	Wind speed fastest
			→ M/AT → AUTO	Default
PROG	→	EFEC	→ E.01 / ↓ / E.09	Select built-in program
		XFAD	→ X.001 / ↓ / X.255	Adjusting built-in program's in ,out time
		SPED	→ S.001 / ↓ / S.255	Adjusting built-in program;s running speed
		STRB	→ S.001 / ↓ / S.255	Adjusting built-in program's strobe
MANU	→	RED	→ R.001 / ↓ / R.255	Adjusting red's brightness manually
		GRN	→ G.001 / ↓ / G.255	Adjusting green's brightness manually

MANU →	BLUE →	B.001 ↓ B.255		Adjusting blue's brightness manually
	WHIT →	W.001 ↓ W.255		Adjusting white's brightness manually
	STRB →	F.001 ↓ F.255		Adjusting event's strobe manually
	PAN →	P.001 ↓ P.255		PAN
	TILT →	T.001 ↓ T.255		TILT
↓				
PERS →	DATA →	SLAV		Set as slave (default)
		MSTR		Set as master
	REST →	---		Reset as default (press the UP,DOWN, ENTER at the same time)
	DISP →	DSP →	HEAD	Digital tube face display(default)
			REVE	Digital tube display up-side-down
		ATOF →	ON	Digital tube set as always on
			OFF	Digital tube set as off (default)
	SET.C →	-0.C		Enter current protecting when led board 's temperature is 90 degree,
		-1.C ↓ -6.C		Down the temperature of current protecting
	CHAN →	8CH		Select DMX mode(default 10CH)
		10CH		
		12CH		
↓				
MODE →	DMX	Recive DMX control work mode		
	MANU	Running the manual setting scene		
	PROG	Running the selected built-in program		

10. DMX TRAITS

MOON LITE 120 DIP DMX channel

Moon Lite 120 Dip			Channel name	DMX value	Function
8 mode	10 mode	12 mode			
1	1	1	Red	0-255	Red(0-0%,255-100%Red)
2	2	2	Green	0-255	Green(0-0%,255-100%Green)
3	3	3	Blue	0-255	Blue(0-0%,255-100%Blue)
4	4	4	W1	0-255	White(0-0%,255-100%White)
			W2		
			W3		
			W4		
	5	5	Macro	0	No function
				1-255	Color macro
5	6	6	Dimmer	0-255	Dimming(0%-100%Normal operation)
6	7	7	Strobe	0-1	No function
				2-249	Strobe
				250-255	No function
7	8	8	Pan	0-255	
8	9	9	Tilt	0-255	
	10	10	Pan/Tilt speed	0-9	
				10-255	
		11	Pan fine	0-255	
		12	Tilt fine	0-255	

11. CLEANING AND MAINTENANCE

■1. In order to ensure the projector could work normally. It should be kept clean always .The lens should also be regularly cleaned to maintain an optimum light output. Do not use any type of solvent on lens. It will damage the projector.

■2. Suggestion: The continue usage of the light don't exceed 4 hours. Or it will shorter the usage of the lamp. Please use the alternative operation to solve this problem.

■3. Please disconnect the power supply when begin to maintenance take down the light. Please let the parts cool down 10 minute at least then begin to install.

■4. Please inspect the lens or other moving parts timing and keep them clear and static. If find anything damaged or looseness must change a lamp or fix the lamp in order to avoid the accident.

CAUTION!

Disconnect from mains before starting maintenance operation.

12. TROUBLE DISPOSE

It is recommended some solution for some normal trouble shooting. Any inextricability problems should always be handling by the professional person. Disconnect the power supply before maintenance the light.

● LED off:

1. Please check if install the suitable voltage
2. Please check whether the led will reach the end of their life can explode; please replace a same description led.
3. Please check if the power supply is enough.
4. Please check whether the DMX 512 controller pass the "turn on" order.

● Though the light is lighting, but it couldn't accept the control order:

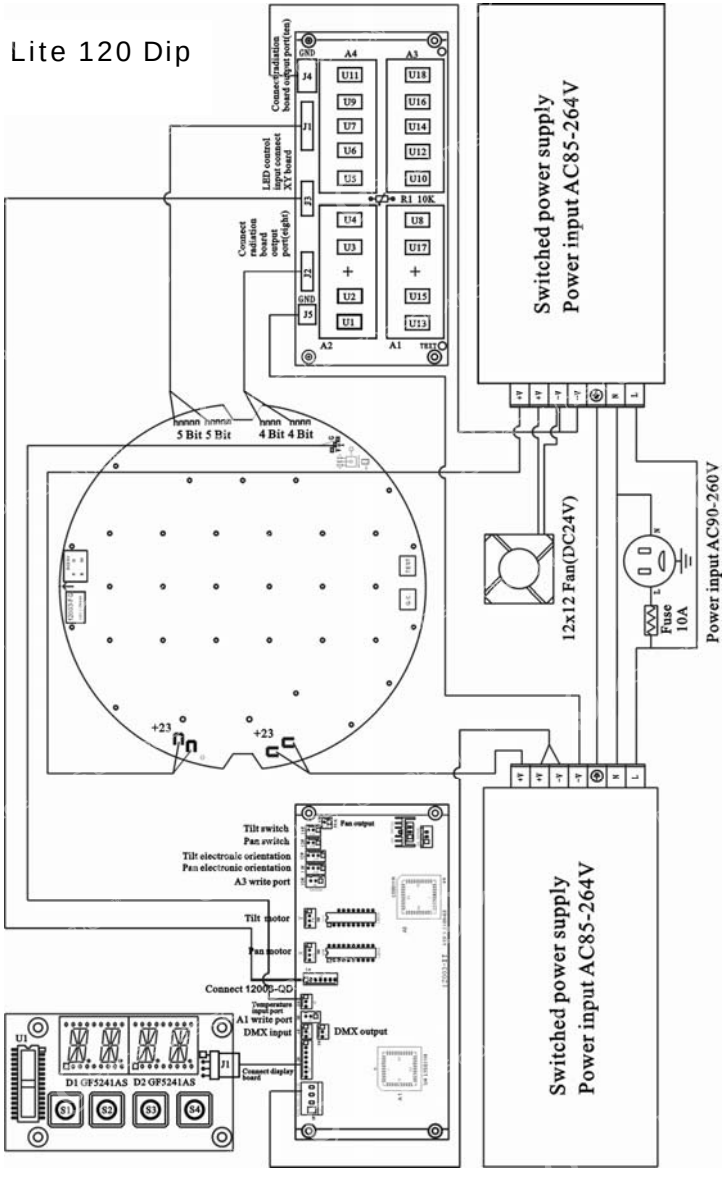
1. Please check the start code address and the function option are correct.
2. Please check whether the communicate control cable is on good connection or the cable is too long or interrupt.
3. Please check the control system is not valid, check the signal amplifier of chain connected is valid.
4. Please check whether the communicate cable is too long or the other equipment is mutually conjugate.
5. Please arrange the wire well, shorter the signal cable, put the high voltage cable and low voltage cable separately.
6. Add the signal amplify isolator.
7. Signal cable is used the excellent screening doublet (Resistance 75 OHM）
8. The end of the light ends and the end resistance.

● The light can't move:

1. Please check if the power supply is suitable for the light voltage data.
2. Please check the fuse of input voltage is defective.
3. Please check the light if it deforms, inside part is broken, becomes wet, etc. It will lead to lose contact.

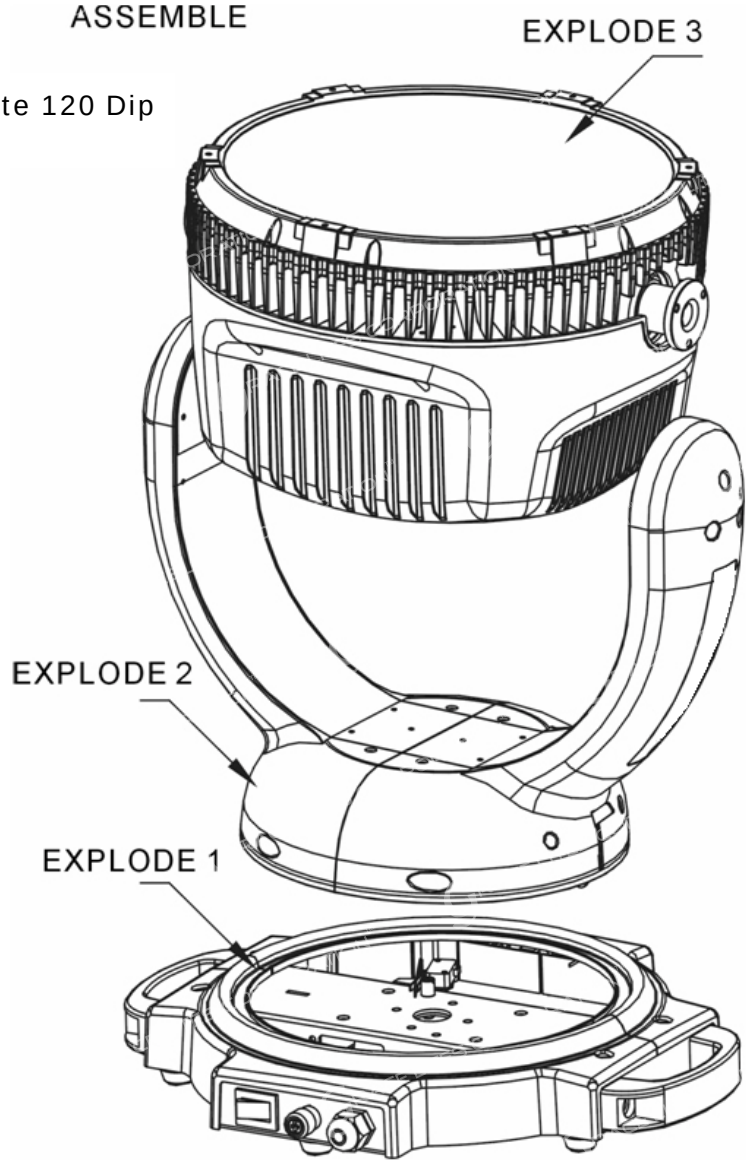
13. CIRCUIT CONNECTING DIAGRAM

Moon Lite 120 Dip

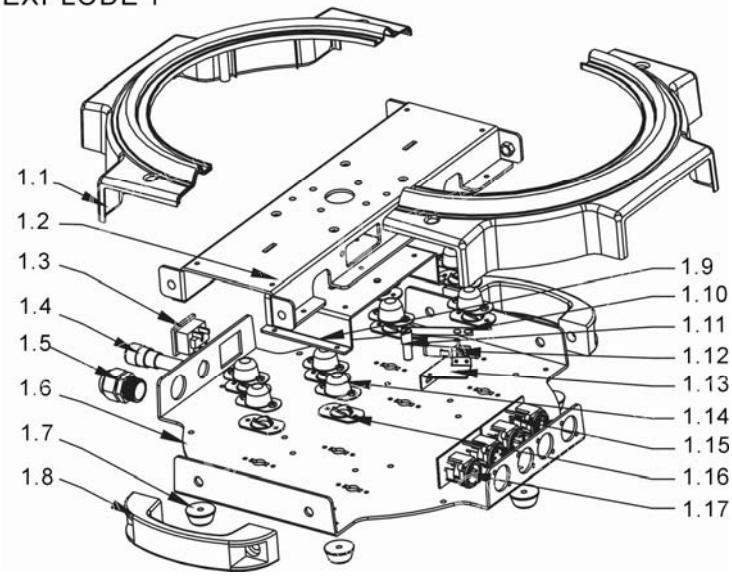


14. EXPLODE DIAGRAM AND LIST

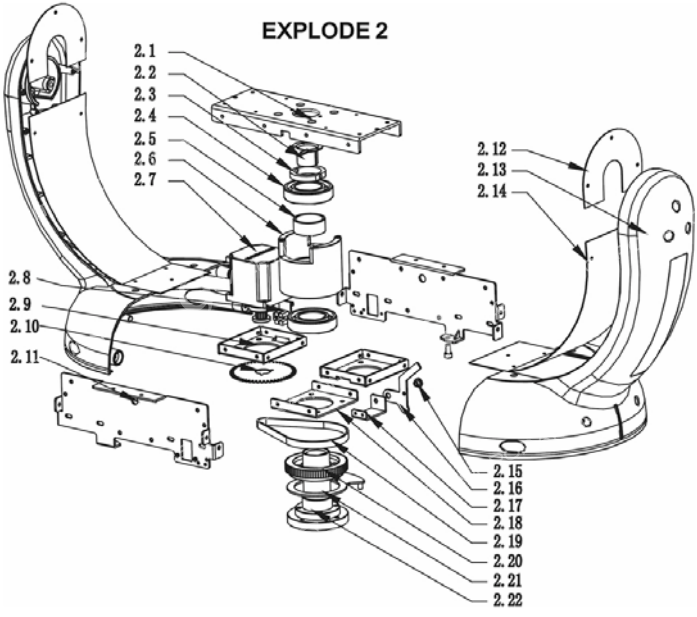
Moon Lite 120 Dip

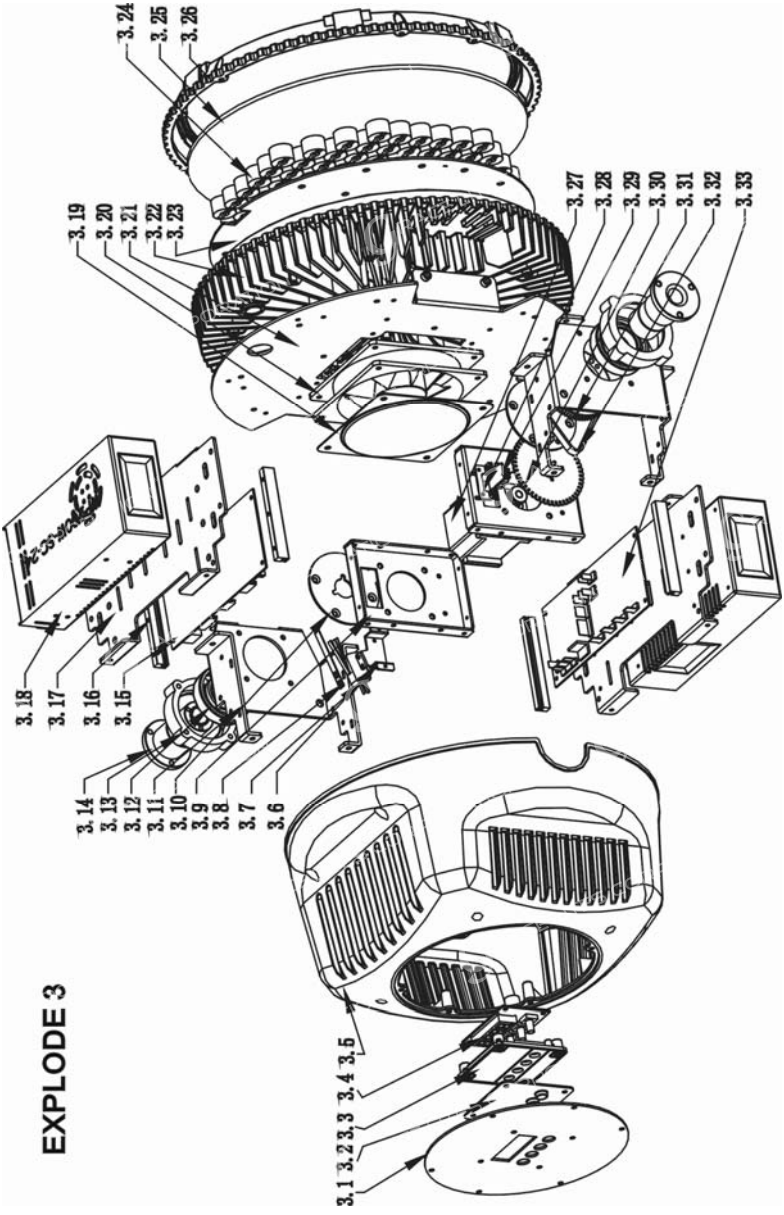


EXPLODE 1



EXPLODE 2




EXPLODE 3
3.1
3.2
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No.	Inquire number	No.	Inquire number
EXPLODE 1		EXPLODE 2	
1.1	M0300320	2.1	M0101934
1.2	M0101941	2.2	M0300756
1.3	M1300509	2.3	M0201404
1.4	M1300601	2.4	M1100106
1.5	M0300715	2.5	M0201917
1.6	M0101940	2.6	M0201914
1.7	M0300308	2.7	M0500333
1.8	M0300503	2.8	Z0600504
1.9	M0101942	2.9	M0101936
1.10	M0101415	2.10	M0101404
1.11	M0201405	2.11	M0101935
1.12	M1300510	2.12	M0101954
1.13	M0101943	2.13	M0400143
1.14	M0102171	2.14	M0101955
1.15		2.15	M0202141
1.15.1	M1301023	2.16	M0101939
1.15.2	M1301022	2.17	M0101944

	M1600198	2.18	M0101938
1.16	M0101907	2.19	M0800152
1.17		2.20	M0201913
1.17.1	M1301025	2.21	M0101937
1.17.2	M1301024	2.22	M0201912
	M1600197		

No.	Inquire number	No.	Inquire number
EXPLODE 3			
3.1	M0101949	2.26	M0300174
3.2	M0300760	3.27	M0500340
3.3	M0300762	3.28	M0101950
3.4	Z0600317	3.29	Z0600526
3.5	M0300174	3.30	M0101404
3.6	M0101957	3.31	M0201909
3.7	M1300510	3.32	M0800139
3.8	M0101415	3.33	Z0600213
3.9	M0101947	ASSEMBLE	

3.10	**M0101951**	**EXPLODE 1**	
3.11	**M0101948**	**EXPLODE 2**	
3.12	**M1100106**	**EXPLODE 3**	
3.13	**M0300727**		
3.14	**M0201915**		
3.15	**Z0600143**		
3.16	**M0201916**		
3.17	**M0101946**		
3.18	**M1000903**		
3.19	**M01021100**		
3.20	**M1200407**		
3.21	**M0101945**		
3.22	**M0400142**		
3.23	**Z0600705**		
3.24	**M0600908**		
3.25	**M0600822**		